

## APPENDIX

The list of elements in the drawings.

## [FIG.1]

102, 103... BASE STATION 1/2    104... EXCHANGE    105... TERMINAL  
5    USAGE LIMITING APPARATUS

## [FIG.2]

202... RF DEVICE    203... PILOT CHANNEL MODULATOR    204... PAGING  
CHANNEL MODULATOR    205... SENDING CONTROLLER    206... MESSAGE  
GENERATOR

## 10    [FIG.3]

102... BASE STATION    101... MOBILE TERMINAL    105... USAGE  
LIMITING APPARATUS    601... OVERHEAD MESSAGE    602... CONTROL  
INFORMATION RECEIVED FROM BASE STATION    603... MOBILE  
TERMINAL MOVED INTO USAGE LIMITING AREA    604... PILOT CHANNEL  
15    605... STRONG ELECTRIC FIELD PILOT DETECTED    606... SWITCHED  
(HANDOFF) TO USAGE LIMITING APPARATUS    607... PSEUDO OVERHEAD  
MESSAGE    608... PSEUDO CONTROL INFORMATION RECEIVED    609...  
ORIGINATING REQUEST FROM USER    610... ORIGINATING MESSAGE  
611... IGNORED    612... ACCESS FAILED    T0 - T2... TIME

## 20    [FIG.4]

202... RF DEVICE    203... PILOT CHANNEL MODULATOR    204... PAGING  
CHANNEL MODULATOR    305... ACCESS CHANNEL DEMODULATOR    306...  
SENDING/RECEIVING CONTROLLER    308... MESSAGE GENERATOR    307...  
MESSAGE ANALYZER

## 25    [FIG.5]

102... BASE STATION      101... MOBILE TERMINAL      105... USAGE  
LIMITING APPARATUS      601... OVERHEAD MESSAGE      602... CONTROL  
INFORMATION RECEIVED FROM BASE STATION      603... MOBILE  
TERMINAL MOVED INTO USAGE LIMITING AREA      604... PILOT CHANNEL  
5 605... STRONG ELECTRIC FIELD PILOT DETECTED      606... SWITCHED  
(HANDOFF) TO USAGE LIMITING APPARATUS      607... PSEUDO OVERHEAD  
MESSAGE      608... PSEUDO CONTROL INFORMATION RECEIVED      609...  
ORIGINATING REQUEST FROM USER      610... ORIGINATING MESSAGE  
701... REJECTION MESSAGE GENERATED      702... REJECTION MESSAGE

10 T0 - T2... TIME

[FIG.6]

202... RF DEVICE      203... PILOT CHANNEL MODULATOR      204... PAGING  
CHANNEL MODULATOR      305... ACCESS CHANNEL DEMODULATOR      306...  
SENDING/RECEIVING CONTROLLER      410... HANDOFF DIRECTING  
15 DEVICE      411... MESSAGE GENERATOR      408... EMERGENCY CALL  
DECIDING DEVICE      407... MESSAGE ANALYZER      409... NON-LIMITED  
PHONE NUMBER MEMORY      412... NEIGHBOR BASE STATION PILOT PN  
MEMORY

[FIG.7]

20 502... RF DEVICE      503... PILOT CHANNEL DEMODULATOR      504... PAGING  
CHANNEL DEMODULATOR      505... ACCESS CHANNEL DEMODULATOR      506...  
PILOT STRENGTH MEASURING DEVICE      507... SENDING/RECEIVING  
CONTROLLER      508... HANDOFF DECIDING DEVICE      510... TRANSMITTER  
STOP DIRECTING DEVICE      508... HANDOFF DECIDING DEVICE      511...

MESSAGE GENERATOR 509... MESSAGE ANALYZER 512... EMERGENCY  
DECIDING DEVICE 513... NON-LIMITED PHONE NUMBER MEMORY

[FIG.8]

102... BASE STATION 101... MOBILE TERMINAL 105... USAGE  
5 LIMITING APPARATUS 801... OVERHEAD MESSAGE 802... CONTROL  
INFORMATION RECEIVED FROM BASE STATION 803... MOBILE  
TERMINAL MOVED INTO USAGE LIMITING AREA 804... PILOT CHANNEL  
805... STRONG ELECTRIC FIELD PILOT DETECTED 806... SWITCHED  
(HANDOFF) TO USAGE LIMITING APPARATUS 807... USAGE LIMIT  
10 MESSAGE 808... SET IN OPERATION LIMIT MODE 809... DISPLAY  
MESSAGE "YOU ARE NOW IN USAGE LIMITING AREA" 810... PSEUDO  
OVERHEAD MESSAGE 811... PSEUDO CONTROL INFORMATION RECEIVED  
FROM USAGE LIMITING APPARATUS T0 - T2... TIME

[FIG.9]

15 901... YOUR ARE NOW IN USAGE LIMITING AREA.

[FIG.10]

1001... PURPOSE NUMBER 1. POLICE STATION 2. FIRE STATION

[FIG.11]

102... BASE STATION 101... MOBILE TERMINAL 105... USAGE  
20 LIMITING APPARATUS 1101... PSEUDO OVERHEAD MESSAGE 1102...  
PSEUDO CONTROL INFORMATION RECEIVED FROM USAGE LIMITING  
APPARATUS 1103... DIALED (119) 1104... DIALED NUMBER ANALYZED  
1105... EMERGENCY CALL INDICATOR SET 1106... ORIGINATING  
MESSAGE/EMERGENCY CALL INDICATOR 1107... EMERGENCY CALL  
25 ACCEPTED 1108... HANDOFF BASE STATION DECIDED 1109...

EMERGENCY CALL HANDOFF MESSAGE 1110... SWITCHED (HANDOFF)  
TO PILOT PN 1111... OVERHEAD MESSAGE 1112... CONTROL  
INFORMATION RECEIVED FROM BASE STATION 1113... EMERGENCY  
CALL MADE AGAIN 1114... ORIGINATING MESSAGE

5 [FIG.12]

102... BASE STATION 101... MOBILE TERMINAL 105... USAGE  
LIMITING TERMINAL 1201... PSEUDO OVERHEAD MESSAGE 1202...  
PSEUDO CONTROL INFORMATION RECEIVED FROM USAGE LIMITING  
APPARATUS DIALED (119) 1204... ORIGINATING MESSAGE 1205...  
10 NUMBER ANALYZED 1206... NON-LIMITED PHONE NUMBER COMPARED  
1207... HANDOFF BASE STATION DECIDED 1208... EMERGENCY CALL  
HANDOFF MESSAGE 1209... SWITCHED (HANDOFF) TO PILOT PN  
1210... OVERHEAD MESSAGE 1211... CONTROL INFORMATION RECEIVED  
FROM BASE STATION 1212... EMERGENCY CALL MADE AGAIN 1213...  
15 ORIGINATING MESSAGE

[FIG.13]

START UP USAGE LIMITING APPARATUS.

1301... SET PILOT PN DIFFERENT FROM THOSE OF NEIGHBOR BASE  
STATIONS AS BASE STATION ID.

20 1302... SET NEIGHBOR BASE STATION CONFIGURATION.

1303... KEEP SENDING PILOT SIGNAL.

1304... SEND OVERHEAD MESSAGE/USAGE LIMIT MESSAGE  
PERIODICALLY.

1305... MESSAGE RECEIVED? 1306... ORIGINATING MESSAGE? 1307...

25 SEND USAGE LIMIT MESSAGE. 1308... ANALYZE PHONE NUMBER.

1309... EMERGENCY CALL? 1310... SEND USAGE LIMIT MESSAGE.  
1311... DECIDE HANDOFF BASE STATION. 1312... SEND EMERGENCY  
CALL HANDOFF MESSAGE.

[FIG.14]

5 102... BASE STATION 105... TERMINAL USAGE LIMITING APPARATUS  
1411... PILOT CHANNEL 1410... PAGING CHANNEL 1420... EMERGENCY  
HANDOFF 104... EXCHANGE 103... BASE STATION

[FIG.15]

1502... RF DEVICE 1503... PILOT CHANNEL DEMODULATOR 1504...  
10 PAGING CHANNEL DEMODULATOR 1505... PILOT CHANNEL MODULATOR  
1506... PAGING CHANNEL MODULATOR 1507... ACCESS CHANNEL  
DEMOMULATOR 1508... PILOT STRENGTH MEASURING DEVICE 1509...  
SENDING/RECEIVING CONTROLLER 1513... HANDOFF DIRECTING  
DEVICE 1514... MESSAGE GENERATOR 1510... HANDOFF DECIDING  
15 DEVICE 1512... EMERGENCY CALL DECIDING DEVICE 1511... MESSAGE  
ANALYZER 1510... Idle handoff DECIDING DEVICE 1515...  
SELF-STATION PILOT PN DECIDING DEVICE 1516... NON-LIMITED  
PHONE NUMBER MEMORY 1517... NEIGHBOR BASE STATION  
INFORMATION MEMORY

20 [FIG.16]

1602... RF DEVICE 1603... PILOT CHANNEL DEMODULATOR 1604...  
PAGING CHANNEL DEMODULATOR 1605... ACCESS CHANNEL MODULATOR  
1606... TRAFFIC CHANNEL DEMODULATOR 1607... TRAFFIC CHANNEL  
MODULATOR 1608... PILOT STRENGTH MEASURING DEVICE 1609...  
25 SENDING/RECEIVING CONTROLLER 1612... TRANSMITTER STOP

DIRECTING DEVICE 1610... HANDOFF DECIDING DEVICE 1613...  
MESSAGE GENERATOR 1611... MESSAGE ANALYZER 1614... EMERGENCY  
CALL DECIDING DEVICE 1615... NON-LIMITED PHONE NUMBER MEMORY  
[FIG.17]

5 102... BASE STATION 105... USAGE LIMITING APPARATUS 1812...  
USAGE LIMITING APPARATUS EMERGENCY CALL HANDOFF 103...  
BASE STATION  
[FIG.18]

101... MOBILE TERMINAL 105... TERMINAL USAGE LIMITING  
10 APPARATUS 102... BASE STATION 103... BASE STATION 1801...  
USAGE LIMIT MODE 1802... PSEUDO OVERHEAD MESSAGE 1803...  
PILOT CHANNEL 1804... PILOT CHANNEL 1805... OVERHEAD MESSAGE  
1806... TERMINAL USAGE LIMITING APPARATUS MOVED INTO AREA OF  
BASE STATION 603 1805... OVERHEAD MESSAGE 1807... STRONG  
15 ELECTRIC FIELD PILOT DETECTED 1808... IDLE HANDOFF EXECUTED  
1809... OVERHEAD MESSAGE 1810... NEIGHBOR BASE STATION  
INFORMATION UPDATED 1811... SELF-STATION PILOT PN SWITCHED  
1812... PILOT CHANNEL 1813... STRONG ELECTRIC FIELD PILOT  
DETECTED 1814... IDLE HANDOFF EXECUTED 1815... PSEUDO  
20 OVERHEAD MESSAGE  $t_1 - t_2$ ... TIME  
[FIG.19]

BASE STATION 111 PILOT STRENGTH  
1. BASE STATION ...  
[FIG.20]

101... MOBILE TERMINAL      105... TERMINAL USAGE LIMITING  
APPARATUS   103, 102... BASE STATION   2001... USAGE LIMIT MODE  
2002... PSEUDO OVERHEAD MESSAGE   2003... PILOT CHANNEL   2004...  
PILOT CHANNEL   2005... OVERHEAD MESSAGE   2006... NEIGHBOR BASE  
5   STATION INFORMATION UPDATED   2007... DIALED (119)   2008...  
ORIGINATING MESSAGE   2009... NUMBER ANALYZED   2010... DECIDED  
TO BE EMERGENCY CALL   2011... HANDOFF BASE STATION DECIDED  
2012... HANDOFF DIRECTING MESSAGE   2013... ORIGINATING MESSAGE  
[FIG.21]

10   START UP TERMINAL USAGE LIMITING APPARATUS.

2108... SWITCH SELF-STATION PILOT PN.

2101... KEEP SENDING PILOT SIGNAL.   2102... KEEP SENDING PAGING  
CHANNEL SIGNAL.   2103... KEEP RECEIVING PILOT SIGNAL.   2104...  
KEEP RECEIVING PAGING CHANNEL SIGNAL.   2105... IDLE HANDOFF?

15   2106... SWITCH LONG CODE MASK.   2107... SELF-STATION PILOT PN  
SWITCHED?   2109... ORIGINATING MESSAGE RECEIVED?   2110...  
ANALYZE PHONE NUMBER.   2111... EMERGENCY CALL?   2112... SEND  
REJECTION MESSAGE.   2113... DECIDE HANDOFF BASE STATION.  
2114... SEND HANDOFF DIRECTING MESSAGE.

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603... MOBILE TERMINAL MOVED INTO USAGE LIMITING AREA   604...  
PILOT CHANNEL   605... STRONG ELECTRIC FIELD PILOT DETECTED  
606... SWITCHED (HANDOFF) TO USAGE LIMITING APPARATUS   607...  
PSEUDO OVERHEAD MESSAGE   608... PSEUDO CONTROL INFORMATION

25   RECEIVED   609... ORIGINATING REQUEST FROM USER   610...

ORIGINATING MESSAGE 611... IGNORED 612... ACCESS FAILED T0  
- T2... TIME